Christian Odueme Expands AI-Driven Engineering Research Following Smart Manufacturing Milestone

INDIANAPOLIS, IN, UNITED STATES, September 6, 2026 /EINPresswire.com/ -- Engineer and data science professional Christian Odueme is expanding his research focus at the intersection of energy engineering and intelligent industrial systems following his 2025 to 2026 studies in Smart Manufacturing and Digital Integration at Ivy Tech Community College, which he pursued as an Eli Lilly Scholar.



Engineer and data science professional Christian Odueme

The milestone adds manufacturing expertise to his engineering and data-focused career. Odueme has a strong educational foundation in the energy sector. He earned his bachelor's degree in Petroleum Engineering from the University of Lagos. He then completed a master's degree in Oil and Gas Engineering at the University of Aberdeen.

His current research targets the safety and reliability of complex energy systems. He explores how artificial intelligence can help engineers identify equipment failures earlier. He also uses probability-based risk models to make infrastructure more reliable.

His primary areas of study include:
-Multiphase flow dynamics
-Offshore drilling safety
-Carbon capture and storage

Odueme's professional experience has supported this research direction. At FedEx Logistics, he worked as a data scientist using machine learning and time-series methods to forecast logistics volume and analyze operational problems. His Amazon experience has included facilities management, cloud computing and problem analysis in high-volume operations.

His smart manufacturing studies have further broadened that foundation through training in industrial automation, connected factory systems and manufacturing safety. This gives him a practical platform for examining how digital tools can support equipment reliability in both energy and industrial environments.

Key areas of his work include:
-Applying machine learning to identify bottlenecks and unusual operating patterns.
-Using sensor and maintenance data to support earlier equipment interventions.
-Connecting engineering reliability methods with data-driven decision tools.

His earlier academic work examined enhanced oil recovery through computational simulation. He has also developed experience with engineering and analytical tools including ANSYS Fluent, OpenFOAM and MATLAB.

Odueme's overarching goal is to create safer energy and industrial systems. His approach combines traditional engineering methods with artificial intelligence and dynamic risk assessment. He has a particular interest in offshore energy infrastructure and advanced manufacturing.

This combination of training and experience reflects an important shift toward engineering systems that use operational data to improve safety and performance. Odueme is seeking to continue this work through advanced research in petroleum, gas or process engineering.

More information about Christian Odueme's professional background is available on his LinkedIn profile.

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